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       Van Pel, Aline
       Brasseur, Francis
       De Plaen, Etienne
       Boon, Thierry

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<141> 2001-05-25

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atg ggg gct gta tga tgggagggag cacagtgtct attggaagct caggaagctg     2940
Met Gly Ala Val
            235
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ctcacccaag agtgggtgca ggagaactac ctggagtacc gccaggcgcc cggcagtgat      3000
cctgtgcgct acgagttcct gtggggtcca agggcccttg ctgaaaccag ctatgtgaaa      3060
gtcctggagc atgtggtcag ggtcaatgca agagttcgca tttcctaccc atccctgcat      3120
gaagaggctt tgggagagga gaaaggagtt tgagcaggag ttgcagctag gccagtggg       3180
gcaggttgtg ggagggcctg ggccagtgca cgttccaggg ccacatccac cactttccct      3240
gctctgttac atgagcccca ttcttcactc tgtgtttgaa gagagcagtc acagttctca      3300
gtagtgggga gcatgttggg tgtgagggaa cacagtgtgg accatctctc agttcctgtt      3360
ctattgggcg atttggaggt ttatctttgt ttcctttggg aattgttcca atgttccttc      3420
taatggatgg tgtaatgaac ttcaacattc attttatgta tgacagtaga cagacttact      3480
gctttttata tagtttagga gtaagagtct tgcttttcat ttatactggg aaacccatgt      3540
tatttcttga attcagacac tacaagagca gaggattaag gttttttttag aaatgtgaaa     3600
caacatagca gtaaaataca tgagataaag acataaagaa attaaacaat agttaattct      3660
tgccttacct gtacctctta gtgtaccctca tgtacctgaa tttgcttggc ttctttgaga     3720
atgaaattga attaaatatg aataaataag tccccctgct cactggctca ttttttccca      3780
aaatattcat tgagcttccg ctatttggaa ggccctgggt tagtattgga gatgctaca       3839
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agaggcccct ctggcatcag aacagcagga accccacagt tcctggccct accagccctt      180
ttgtcagtcc tggagccttg cctttgcca ggaggctgca ccctgagatg ccctctcaat       240
ttctccttca ggttcgcaga gaacaggcca gccaggaggt caggaggccc cagagaagca      300
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ctgaagaaga cctgtaagta gacctttgtt agggcatcca gggtgtagta cccagctgag 360
gcctctcaca cgcttcctct ctccccaggc ctgtgggtct caattgccca gctccggccc 420

acactctcct gctgccctga cctgagtcat c atg ctt ctt ggg cag aag agt      472
                                  Met Leu Leu Gly Gln Lys Ser
                                   1               5

cag cgc tac aag gct gag gaa ggc ctt cag gcc caa gga gag gca cca    520
Gln Arg Tyr Lys Ala Glu Glu Gly Leu Gln Ala Gln Gly Glu Ala Pro
        10              15                  20

ggg ctt atg gat gtg cag att ccc aca gct gag gag cag aag gct gca    568
Gly Leu Met Asp Val Gln Ile Pro Thr Ala Glu Glu Gln Lys Ala Ala
    25                  30                  35

tcc tcc tcc tct act ctg atc atg gga acc ctt gag gag gtg act gat    616
Ser Ser Ser Ser Thr Leu Ile Met Gly Thr Leu Glu Glu Val Thr Asp
40                  45                  50                  55

tct ggg tca cca agt cct ccc cag agt cct gag ggt gcc tcc tct tcc    664
Ser Gly Ser Pro Ser Pro Pro Gln Ser Pro Glu Gly Ala Ser Ser Ser
                60                  65                  70

ctg act gtc acc gac agc act ctg tgg agc caa tcc gat gag ggt tcc    712
Leu Thr Val Thr Asp Ser Thr Leu Trp Ser Gln Ser Asp Glu Gly Ser
                75                  80                  85

agc agc aat gaa gag gag ggg cca agc acc tcc ccg gac cca gct cac    760
Ser Ser Asn Glu Glu Glu Gly Pro Ser Thr Ser Pro Asp Pro Ala His
            90                  95                  100

ctg gag tcc ctg ttc cgg gaa gca ctt gat gag aaa gtg gct gag tta    808
Leu Glu Ser Leu Phe Arg Glu Ala Leu Asp Glu Lys Val Ala Glu Leu
    105                 110                 115

gtt cgt ttc ctg ctc cgc aaa tat caa att aag gag ccg gtc aca aag    856
Val Arg Phe Leu Leu Arg Lys Tyr Gln Ile Lys Glu Pro Val Thr Lys
120                 125                 130                 135

gca gaa atg ctt gag agt gtc atc aaa aat tac aag aac cac ttt cct    904
Ala Glu Met Leu Glu Ser Val Ile Lys Asn Tyr Lys Asn His Phe Pro
                140                 145                 150

gat atc ttc agc aaa gcc tct gag tgc atg cag gtg atc ttt ggc att    952
Asp Ile Phe Ser Lys Ala Ser Glu Cys Met Gln Val Ile Phe Gly Ile
            155                 160                 165

gat gtg aag gaa gtg gac cct gcc ggc cac tcc tac atc ctt gtc acc    1000
Asp Val Lys Glu Val Asp Pro Ala Gly His Ser Tyr Ile Leu Val Thr
            170                 175                 180

tgc ctg ggc ctc tcc tat gat ggc ctg ctg ggt gat gat cag agt acg    1048
Cys Leu Gly Leu Ser Tyr Asp Gly Leu Leu Gly Asp Asp Gln Ser Thr
    185                 190                 195

ccc aag acc ggc ctc ctg ata atc gtc ctg ggc atg atc tta atg gag    1096
Pro Lys Thr Gly Leu Leu Ile Ile Val Leu Gly Met Ile Leu Met Glu
200                 205                 210                 215

ggc agc cgc gcc ccg gag gag gca atc tgg gaa gca ttg agt gtg atg    1144
Gly Ser Arg Ala Pro Glu Glu Ala Ile Trp Glu Ala Leu Ser Val Met
                220                 225                 230
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ggg gct gta tgatgggagg gagcacagtg tctattggaa gctcaggaag          1193
Gly Ala Val


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gatcctgtgc gctacgagtt cctgtggggt ccaagggccc ttgctgaaac cagctatgtg 1313
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ttctcagggg acagggagag caagaggtca agagctgtgg dacaccacag agcagcactg 180
aaggagaaga cctgtaagtt ggcctttgtt agaacctcca gggtgtggtt ctcagctgtg 240
gccacttaca ccctccctct ctccccaggc ctgtgggtcc ccatcgccca agtcctgccc 300


acactcccac ctgctaccct gatcagagtc atc atg cct cga gct cca aag cgt 354
                                       Met Pro Arg Ala Pro Lys Arg
                                        1               5


cag cgc tgc atg cct gaa gaa gat ctt caa tcc caa agt gag aca cag 402
Gln Arg Cys Met Pro Glu Glu Asp Leu Gln Ser Gln Ser Glu Thr Gln
         10              15                  20


ggc ctc gag ggt gca cag gct ccc ctg gct gtg gag gag gat gct tca 450
Gly Leu Glu Gly Ala Gln Ala Pro Leu Ala Val Glu Glu Asp Ala Ser
     25              30                  35


tca tcc act tcc acc agc tcc tct ttt cca tcc tct ttt ccc tcc tcc 498
Ser Ser Thr Ser Thr Ser Ser Ser Phe Pro Ser Ser Phe Pro Ser Ser
 40              45                  50                  55


tcc tct tcc tcc tcc tcc tcc tgc tat cct cta ata cca agc acc cca 546
Ser Ser Ser Ser Ser Ser Ser Cys Tyr Pro Leu Ile Pro Ser Thr Pro
                 60                  65                  70


gag gag gtt tct gct gat gat gag aca cca aat cct ccc cag agt gct 594
Glu Glu Val Ser Ala Asp Asp Glu Thr Pro Asn Pro Pro Gln Ser Ala
             75                  80                  85


cag ata gcc tgc tcc tcc ccc tcg gtc gtt gct tcc ctt cca tta gat 642
Gln Ile Ala Cys Ser Ser Pro Ser Val Val Ala Ser Leu Pro Leu Asp
         90                  95                  100
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caa tct gat gag ggc tcc agc agc caa aag gag gag agt cca agc acc    690
Gln Ser Asp Glu Gly Ser Ser Ser Gln Lys Glu Glu Ser Pro Ser Thr
    105             110             115

cta cag gtc ctg cca gac agt gag tct tta ccc aga agt gag ata gat    738
Leu Gln Val Leu Pro Asp Ser Glu Ser Leu Pro Arg Ser Glu Ile Asp
120             125             130                 135

gaa aag gtg act gat ttg gtg cag ttt ctg ctc ttc aag tat caa atg    786
Glu Lys Val Thr Asp Leu Val Gln Phe Leu Leu Phe Lys Tyr Gln Met
            140             145             150

aag gag ccg atc aca aag gca gaa ata ctg gag agt gtc ata aaa aat    834
Lys Glu Pro Ile Thr Lys Ala Glu Ile Leu Glu Ser Val Ile Lys Asn
            155             160             165

tat gaa gac cac ttc cct ttg ttg ttt agt gaa gcc tcc gag tgc atg    882
Tyr Glu Asp His Phe Pro Leu Leu Phe Ser Glu Ala Ser Glu Cys Met
            170             175             180

ctg ctg gtc ttt ggc att gat gta aag gaa gtg gat cc                 920
Leu Leu Val Phe Gly Ile Asp Val Lys Glu Val Asp
    185             190             195


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Ser Tyr Leu Asp Ser Gly Ile His Ser
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